Mesker
SAINT LOUIS

ARCHITECTVRAL PROJECTED WINDOWS

CATALOGUE WA

A.I.A. FILE No. 16 E1

SUGGESTIONS WHEN SPECIFYING MESKER ARCHITECTURAL PROJECTED WINDOWS

Standard industry sizes are the most economical and should be used wherever possible. They also allow for more prompt shipment. Sizes shown in shaded area are "Specials"—all others are "Standards."

Ventilators may project either in or out without incurring extra charge.

Structural steel imposts, frames, or other adjacent structural members are not furnished by the window manufacturer.

Wrought iron, the oldest of all ferrous metals insures definite protection against progressive corrosion. At slight extra cost Genuine Wrought Iron Windows are available. (See Mesker Catalogue on Wrought Iron.)

Outside putty glazing is used on all superior casement windows, and is available in Mesker Architectural Projected Windows. The use of outside putty glazing will greatly reduce the window costs, and is further suggested to eliminate unsightly inside putty—to protect outside metal surface against corrosion.

Window dimensions are never based on "outside to outside" dimensions. Measuring points occur 11/16″ "in" from the outermost edge of the outside flange. See installation details.

Screens if desired must be specified before window order is placed. Unlike most wood windows, metal windows come in screen and non-screen types of construction, thereby making it essential that the type of window construction be noted on the original plans and specifications. (Mesker Screens are included in another catalogue.)

Underwriters' fire windows reduce insurance premiums. Consult your local fire board for information as to where to use Underwriters' Windows. All Mesker Architectural Projected Windows may bear the Underwriters' Label providing glazing moulding is used. (See Mesker Catalogue on Underwriters' Windows.)

Mullions increase the opening width two inches. Add this dimension for each vertical mullion used.

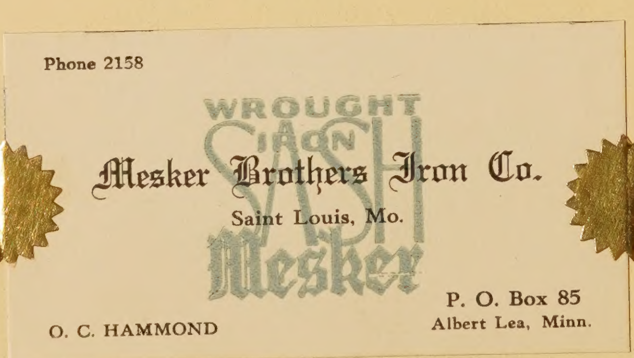
Shade brackets are not furnished by Mesker, but on request standard holes will be punched to receive shade brackets furnished by others. (See hardware details.) Holes shown are of .169″ diameter to receive Parker-Kalon self-tapping screw No. 10.

Erection is one of the most important factors contributing to a perfect metal window installation. Faulty erection in metal windows is common and always produces poor results. Erection should be done by the window manufacturer—specify this to insure most satisfactory service. Mesker trained erection crews are always available.

Adaptability of Mesker Architectural Projected Windows is not confined to schools alone. Office buildings, hospitals, monumental buildings and other commercial and industrial structures are enhanced by their use.

Your problems in window layouts, illumination and ventilation will gladly be studied by the Mesker Engineering Division. For the asking, experienced factory engineers are at your service without obligation to design for you the best available type of window for your particular purpose at the least possible cost.

Other Mesker Products not included in this catalogue are listed on the last cover page.



Phone 2158

WROUGHT IRON SASH

Mesker Brothers Iron Co.
Saint Louis, Mo.

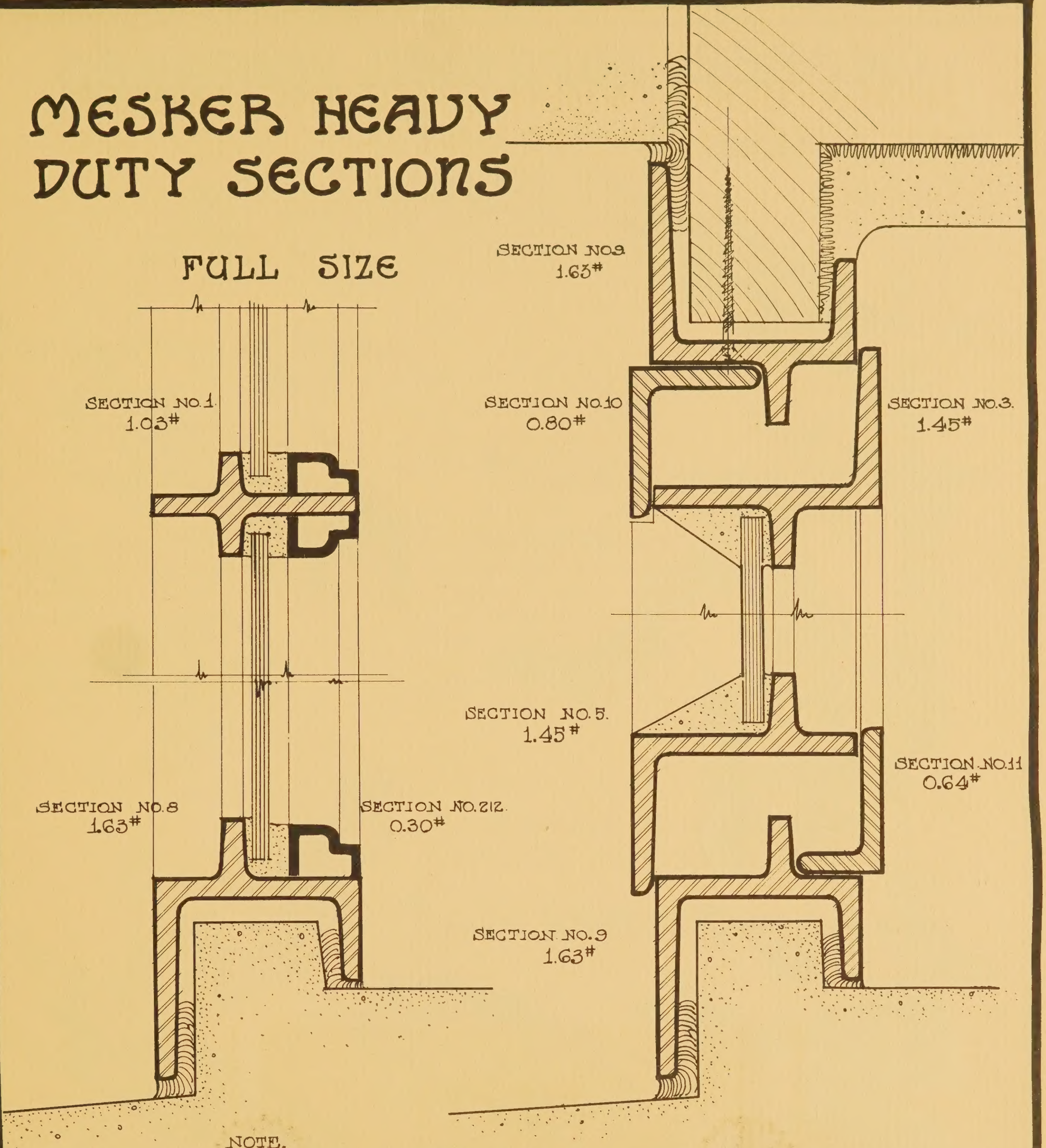
Mesker

O. C. HAMMOND

P. O. Box 85
Albert Lea, Minn.

MESKER HEAVY DUTY SECTIONS

FULL SIZE



NOTE.

THESE DETAILS SHOW ONLY THE SPECIAL SECTIONS USED BY MESKER AND THEIR RELATIVE POSITIONS IN MESKER WINDOWS ● THEY ARE NOT INTENDED TO SHOW INSTALLATION DETAILS OR CONSTRUCTION DETAILS.

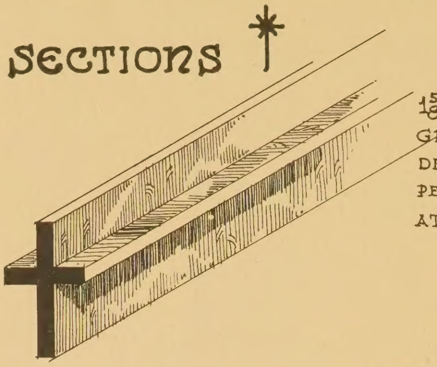
MESKER
BROS.
IRON CO.

ORIGINATORS OF WROUGHT IRON SASH

PLATE
NO.
WA5-34

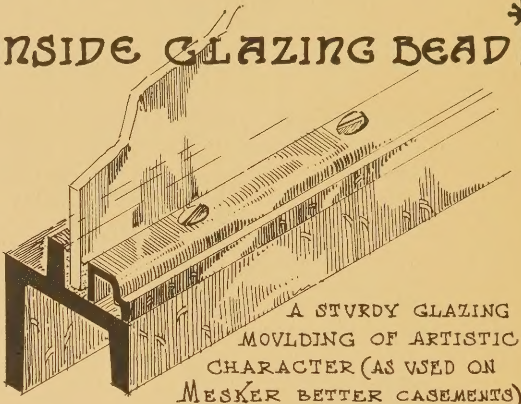
MESKER SUPERIOR FEATURES

HEAVY SECTIONS ✱



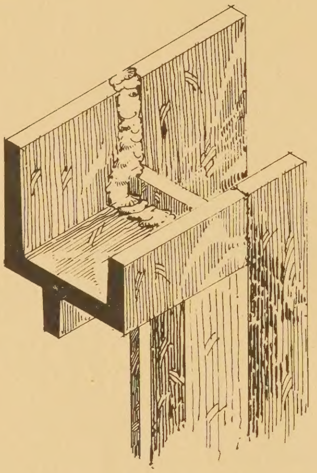
1⅝" AND 1½" IN DEPTH GUARANTEES GREATER RIGIDITY ● BASIC CRUCIFORM DESIGN WITH ITS SIMPLE STRUCTURAL SHAPE PERMITS BETTER CONSTRUCTION AND EASIER ATTACHING OF COMPLIMENTARY BARS.

INSIDE GLAZING BEAD ✱



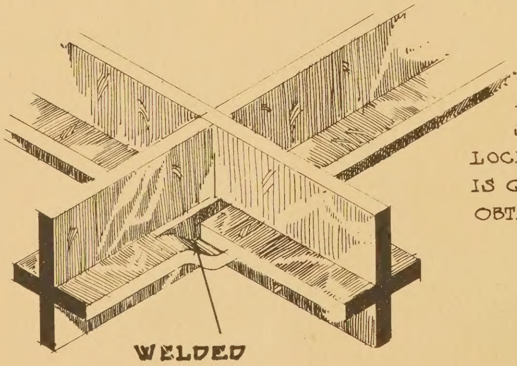
A STURDY GLAZING MOULDING OF ARTISTIC CHARACTER (AS USED ON MESKER BETTER CASEMENTS) IS ALSO FURNISHED ON ARCHITECTURAL PROJECTED WINDOWS ● ENHANCES THE INTERIOR BEAUTY OF THIS WINDOW.

RIVET-WELD CORNER JOINT ✱

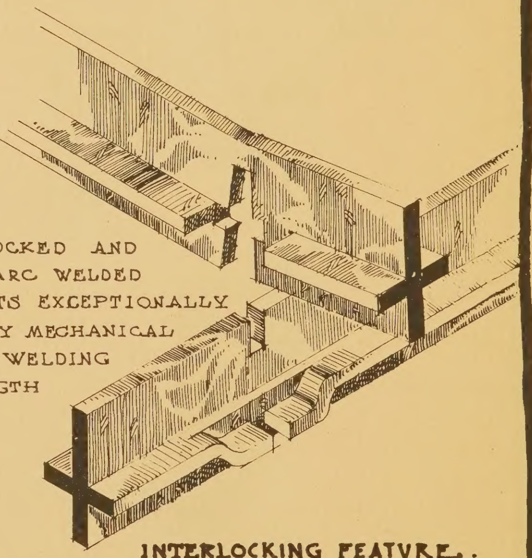


3¼" OF SOLID WELD ON THREE PLANES ONLY AFTER EACH CORNER JOINT IS SECURELY RIVETED PREVENTS WINDOW FROM RACKING OUT OF SQUARE ● ALL VENTILATOR CORNERS ARE LIKEWISE SOLIDLY WELDED.

LOCK & WELD MUNTIN JOINT ✱



PERMANENTLY LOCKED AND ADDITIONALLY ARC WELDED MAKES ALL JOINTS EXCEPTIONALLY STRONG ● ONLY BY MECHANICAL LOCKING PLUS ARC WELDING IS GREATEST STRENGTH OBTAINED



✱ EXCLUSIVE MESKER FEATURE

MESKER BROS IRON CO.

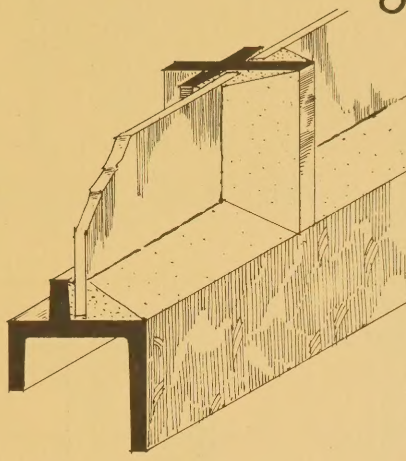
ORIGINATORS OF WROUGHT IRON SASH

PLATE NO. WA7-34

MESKER SUPERIOR FEATURES

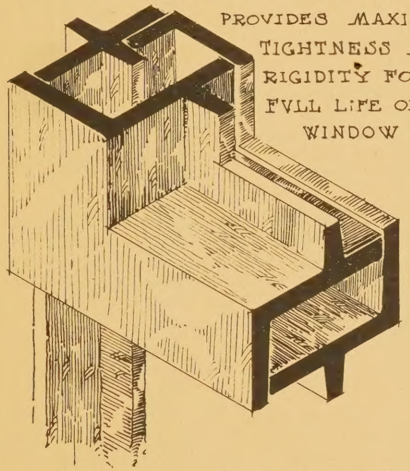
OUTSIDE GLAZING

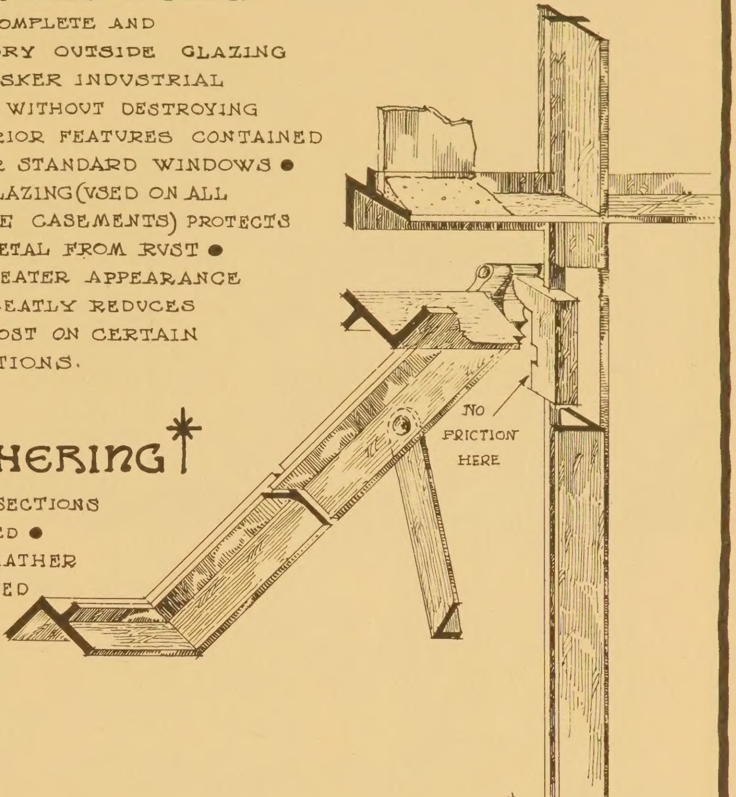
CRUCIFORM DESIGN OF SHAPES PERMITS COMPLETE AND SATISFACTORY OUTSIDE GLAZING OF ALL MESKER INDUSTRIAL WINDOWS, WITHOUT DESTROYING ANY SUPERIOR FEATURES CONTAINED IN MESKER STANDARD WINDOWS ● OUTSIDE GLAZING (USED ON ALL EXPENSIVE CASEMENTS) PROTECTS EXPOSED METAL FROM RUST ● PROVIDES NEATER APPEARANCE INSIDE ● GREATLY REDUCES GLAZING COST ON CERTAIN INSTALLATIONS.



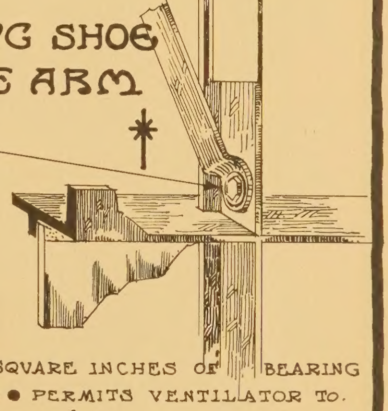
HOT ROLLED ANGLE WEATHERING *

FULL ⅛" THICKNESS PRESERVED IN WEATHERING SECTIONS AS WELL AS IN OTHER SHAPES USED ● PROVIDES MAXIMUM WEATHER TIGHTNESS AND ADDED RIGIDITY FOR THE FULL LIFE OF THE WINDOW ●





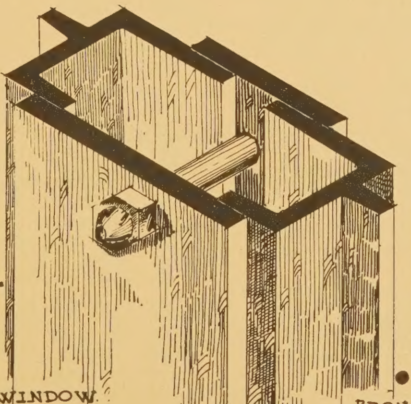
BRONZE SLIDING SHOE ANGLE TYPE SIDE ARM *



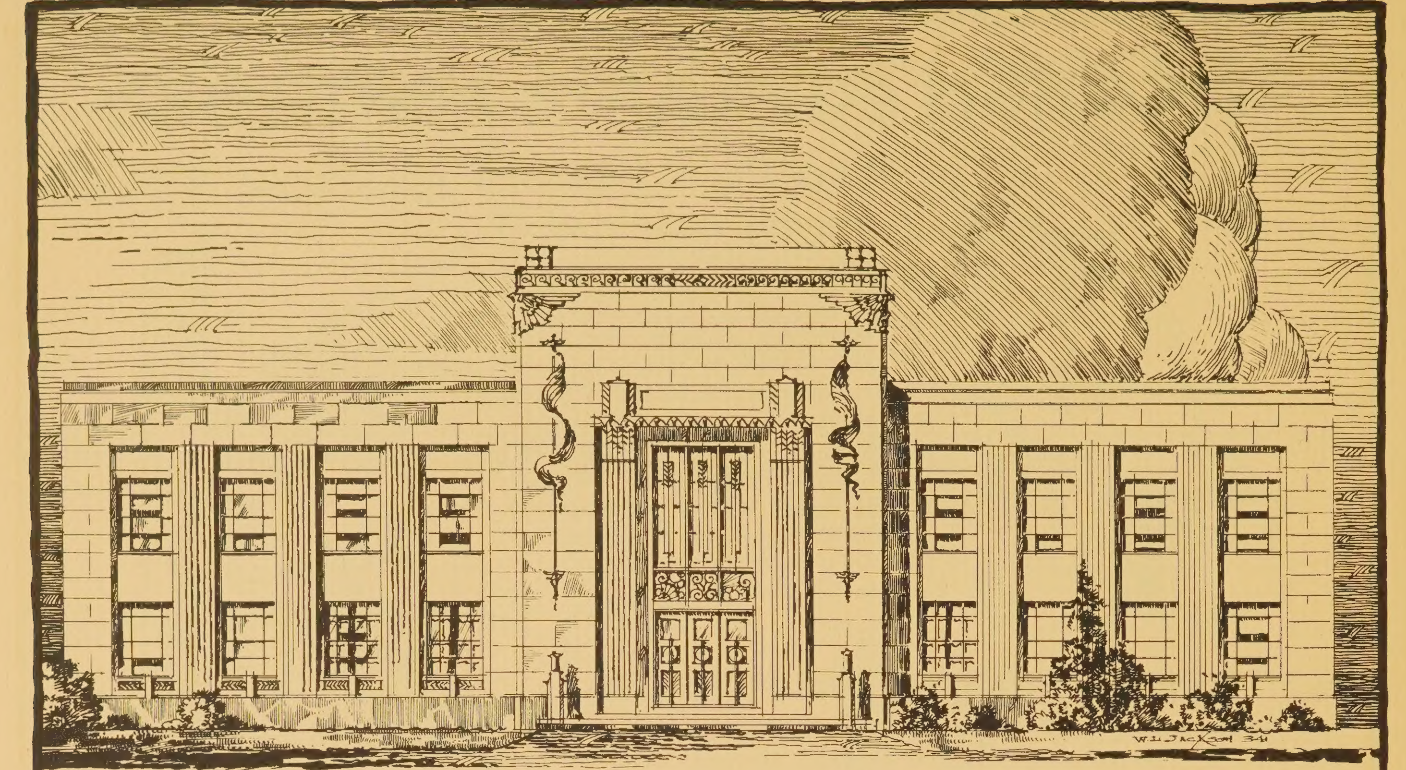
OVER 1½ SQUARE INCHES OF BEARING SURFACE ● PERMITS VENTILATOR TO OPEN FULL 180° ● TWO KNUCKLE HINGE AT TOP PERMITS TIGHT WEATHERING TO BE MAINTAINED AROUND ENTIRE CIRCUMFERENCE OF VENTILATOR ● REDUCES HORIZONTAL SWAY OF VENTILATOR ● ELLIMINATES BINDING OF VENTILATOR ● PROMOTES SMOOTH STEADY ACTION OF BRONZE SLIDING SHOE ● FRICTION VARIED BY TURNING ADJUSTING BOLT TO ENGAGE BRONZE WASHER.

ADJUSTABLE MULLION *

UNUSUAL RANGE OF ADJUSTMENT ACCOMODATES FREQUENT INACCURACIES IN MASONY OPENINGS ● ITS DOUBLE CONTACT WEATHERING ASSURES GREATER WEATHERTIGHT-NESS ● NO PROTRUDING SHEET METAL MULLION COVERS, BUT HEAVY PLATE COVER FLUSH WITH WINDOW.



* EXCLUSIVE MESKER FEATURE.



SPECIFICATIONS

WORK INCLUDED:

1. Furnish where shown on drawings Mesker Architectural Projected Windows as manufactured by the Mesker Brothers Iron Company of Saint Louis, or equal approved by the Architect.

FACTORY DRAWINGS:

2. Submit in triplicate for Architect's approval factory drawings showing complete details of construction, hardware, and installation, together with schedule of windows required.

MATERIALS:

3. Metal used shall be (designate either low carbon hot rolled steel or Genuine Wrought Iron, conforming to A. S. T. M. Specifications, A-84-33, Grade B-1), in sections not less than 1/8" thick nor less than 1 1/2" in depth.

CONSTRUCTION:

4. **Corner joints** shall be riveted and solidly welded.

5. **Muntin joints** shall be interlocked and welded, and shall run continuous from jamb to jamb and head to sill.

6. **Sliding shoes** shall be of bronze, constructed integral with a malleable butt hinge, and shall be entirely free from any friction device.

7. **Friction** shall be maintained between the angle side arm and the stationary sash by means of adjustable bronze washers, allowing the ventilator to remain set in any position without affecting the operation of the sliding shoe.

8. **Side arms** shall be made of special hot rolled angles not less than 1/8" thick to insure maximum strength and freedom from racking.

9. **Weathering members** shall be of hot rolled angles at least 1/8" thick in all cases, forming a double contact around the entire perimeter of the ventilator.

10. **Glazing design** of windows shall be such as to permit glazing on the inside with applied glazing moulding. Factory type glazing angles shall not be used. (Alternate glazing may be either on the inside with putty or on the outside with putty).

11. **Mullions** of manufacturer's standard rolled sections shall be furnished where more than two units occur in one opening. All mullions shall form a double contact with the sash, and shall be anchored at both head and sill.

12. **Anchors,** bolts, and clips of manufacturer's standard shall be furnished for anchoring the windows at the jambs, head, and sill where required.

HARDWARE:

13. All hardware shall be solid bronze of manufacturer's standard finish, and shall be so packed or bundled as to prevent damage in shipping. (Malleable iron hardware may be specified to reduce cost. Also specify window pole and hook if required.)

PROTECTIVE PAINTING:

14. All architectural projected windows, mullions, and anchors shall receive one dip coat of rust resisting metallic primer paint at the factory.

SCREENS: (If not required, omit):

15. All windows as designated shall receive and be prepared for insect screens. Screen frames shall be standard solid steel sections, of standard design 3/8" x 5/8" with soft aluminum rewirable spline. Cloth shall be of the standard 16 mesh bronze. Manufacturer shall furnish all clips and bolts necessary for attaching screens to windows in an approved manner. (For more detailed specifications, please refer to catalogue on Mesker Screens.)

ERECTION:

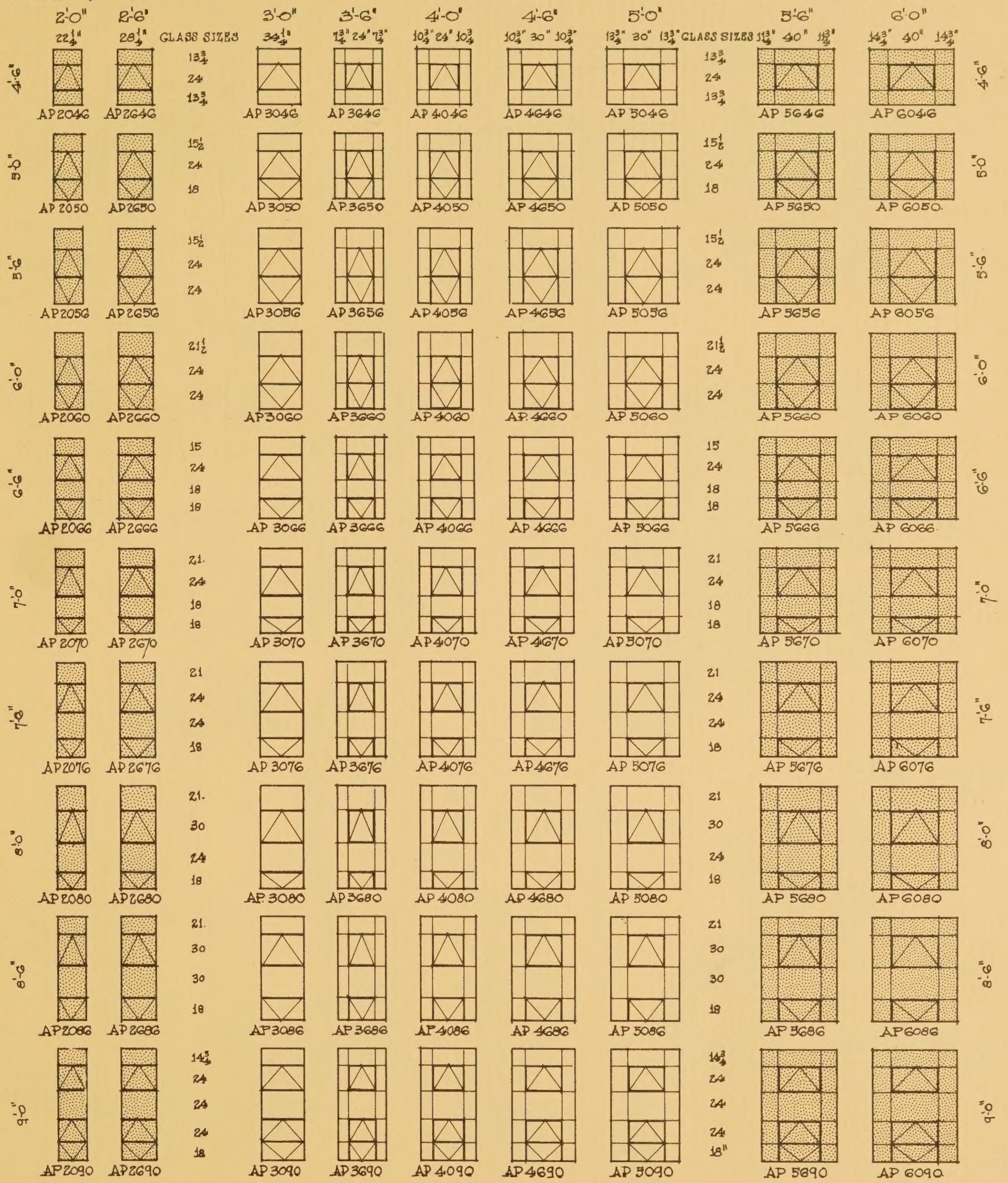
16. All architectural projected windows shall be erected by the window manufacturer in prepared openings. Windows shall be set plumb and true, properly aligned and securely anchored before glazing.

17. Ventilators must be adjusted for ease of operation and for perfect weathering, and hardware shall be applied for this purpose before glazing.

GLASS AND GLAZING:

18. Manufacturer shall furnish sufficient spring steel glazing clips. 19. (Include under Glass and Glazing Specifications that the putty used shall be high quality steel sash putty, that the glass shall be well bed-puttied, and that no single strength glass shall be furnished.)

STANDARD SIZES



	LISTED SPECIALS			STANDARDS						LISTED SPECIALS		
	2'-0"	2'-6"		3'-0"	3'-6"	4'-0"	4'-6"	5'-0"		5'-6"	6'-0"	
	22¼"	28¼"	GLASS SIZES	34¼"	7¾" 24" 7¾"	10¾" 24" 10¾	10¾" 30" 10¾"	13¾" 30" 13¾"	GLASS SIZES	11¾" 40" 11¾"	14¾" 40" 14¾"	
4'-6"	AP2046	AP2646	13¾ 24 13¾	AP 3046	AP 3646	AP 4046	AP 4646	AP 5046	13¾ 24 13¾	AP 5646	AP 6046	4'-6"
5'-0"	AP 2050	AP2650	15½ 24 18	AP 3050	AP.3650	AP 4050	AP 4650	AP 5050	15½ 24 18	AP 5650	AP 6050.	5'-0"
5'-6"	AP2056	AP2656	15½ 24 24	AP 3056	AP 3656	AP 4056	AP 4656	AP 5056	15½ 24 24	AP 5656	AP 6056	5'-6"
6'-0"	AP2060	AP2660	21½ 24 24	AP3060	AP3660	AP 4060	AP. 4660	AP 5060	21½ 24 24	AP 5660	AP 6060	6'-0"
6'-6"	AP 2066	AP 2666	15 24 18 18	AP 3066	AP 3666	AP 4066	AP 4666	AP 5066	15 24 18 18	AP 5666	AP 6066	6'-6"
7'-0"	AP 2070	AP 2670	21 24 18 18	AP 3070	AP 3670	AP 4070	AP 4670	AP 5070	21 24 18 18	AP 5670	AP 6070	7'-0"
7'-6"	AP 2076	AP 2676	21 24 24 18	AP 3076	AP 3676	AP 4076	AP 4676	AP 5076	21 24 24 18	AP 5676	AP 6076	7'-6"
8'-0"	AP 2080	AP 2680	21 30 24 18	AP. 3080	AP 3680	AP 4080	AP 4680	AP 5080	21 30 24 18	AP 5680	AP 6080	8'-0"
8'-6"	AP 2086	AP 2686	21 30 30 18	AP 3086	AP 3686	AP 4086	AP 4686	AP 5086	21 30 30 18	AP 5686	AP 6086	8'-6"
9'-0"	AP 2090	AP 2690	14¾ 24 24 24 18	AP 3090	AP 3690	AP 4090	AP 4690	AP 5090	14¾ 24 24 24 18"	AP 5690	AP 6090.	9'-0"

NOTES

⧄ VENT OPENS OUT AT BOTTOM.

⧅ VENT OPENS IN AT TOP

GLASS SIZES SHOWN ARE FOR STATIONARY LIGHTS. FOR GLASS SIZES IN VENTILATORS DEDUCT 2" FROM GIVEN DIMENSIONS.

MESKER BROS. IRON CO.

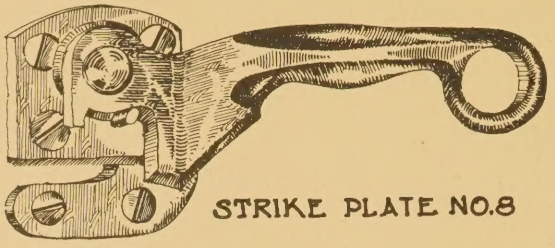
ORIGINATORS OF WROUGHT IRON SASH

PLATE NO. WA 13-34.

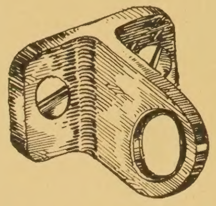
MESKER BRONZE HARDWARE

TUMBLED, POLISHED, OR ANTIQUE FINISH

LOCKING HANDLE NO.10
FOR OPEN-OUT VENTS

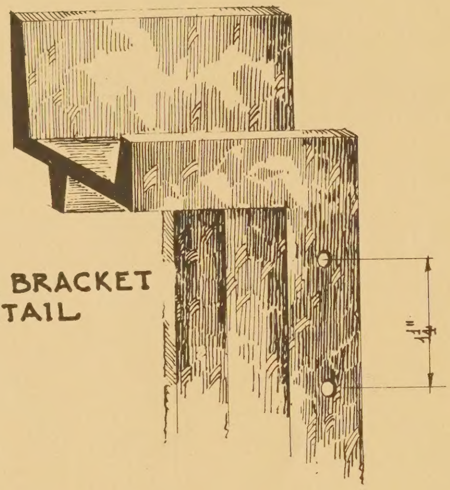


STRIKE PLATE NO.8

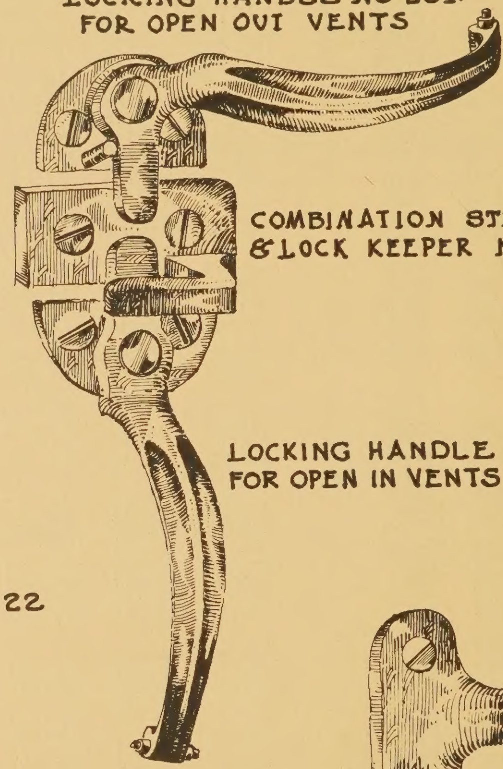


POLE RING NO.19
FOR OPEN OUT VENTS

SHADE BRACKET
DETAIL



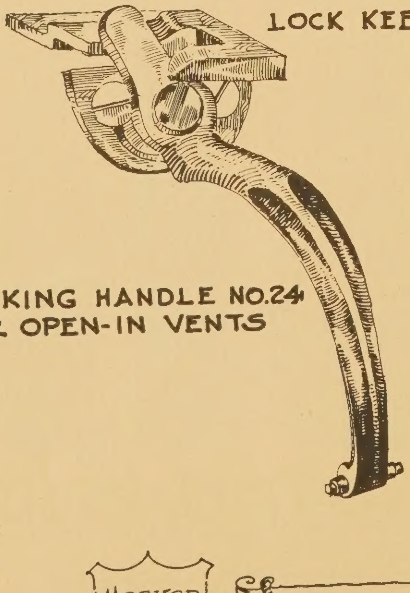
LOCKING HANDLE NO 201.
FOR OPEN OUT VENTS



COMBINATION STRIKE PLATE
& LOCK KEEPER NO.23

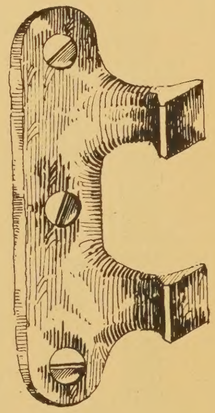
LOCKING HANDLE NO.24
FOR OPEN IN VENTS

LOCK KEEPER NO.22



LOCKING HANDLE NO.24
FOR OPEN-IN VENTS

WINDOW
CLEANERS
ANCHOR
16-D

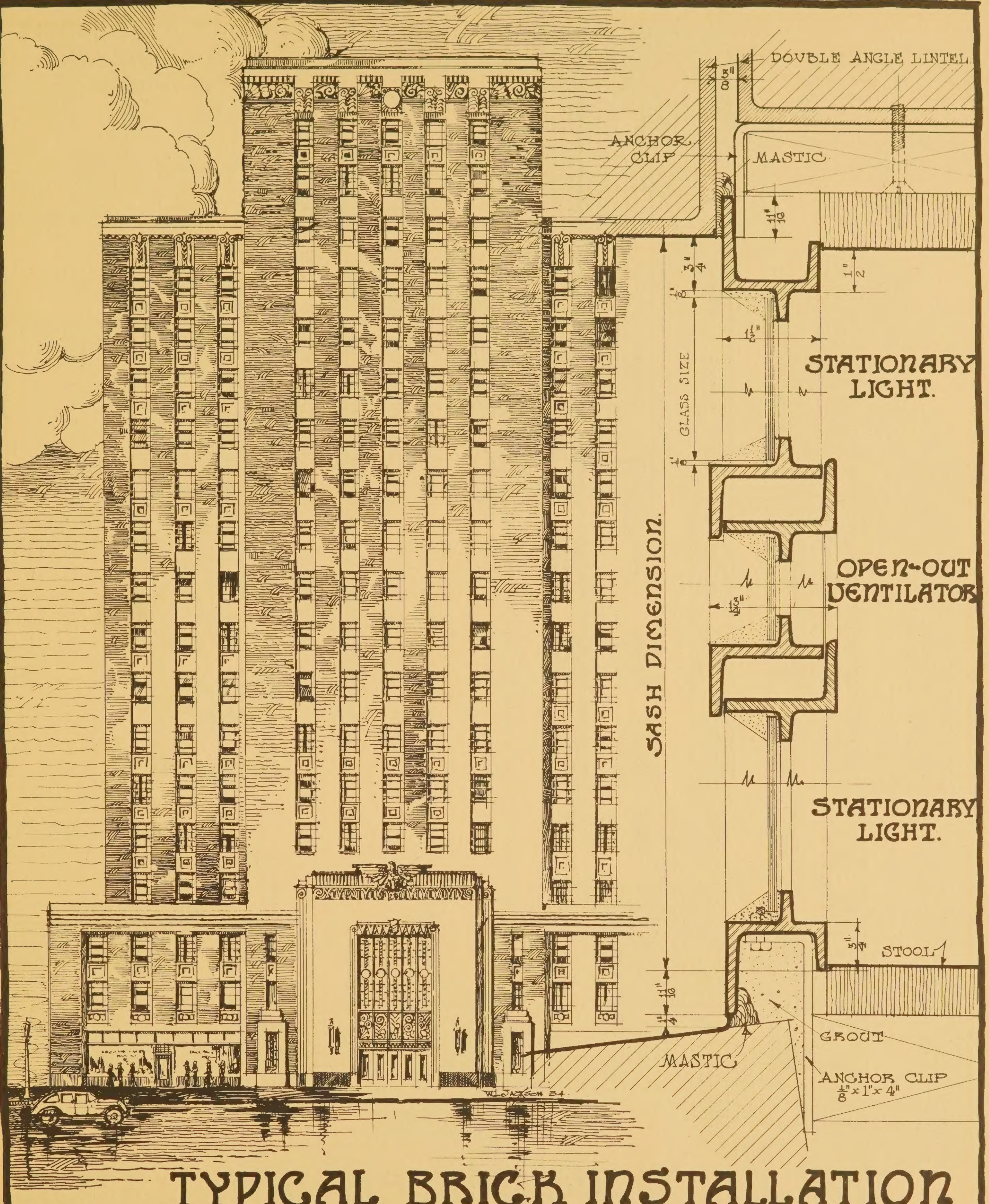


W.L. JACKSON '34

MESKER
BROS.
IRON CO.

ORIGINATORS OF WROUGHT IRON SASH

PLATE
NO.
WA15-34

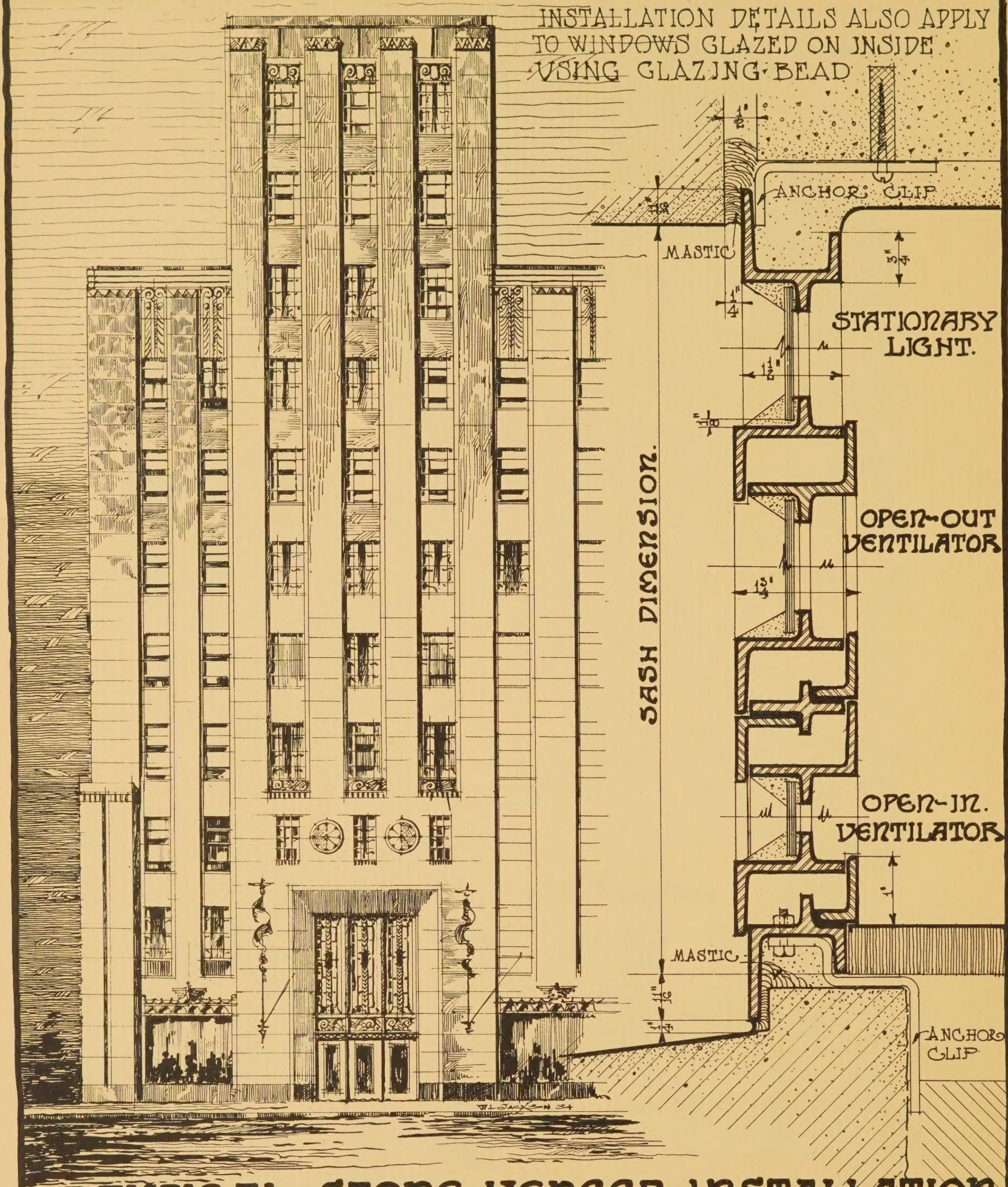


TYPICAL BRICK INSTALLATION

MESKER BROS. IRON CO.

ORIGINATORS OF WROUGHT IRON SASH

PLATE NO. WA17-34

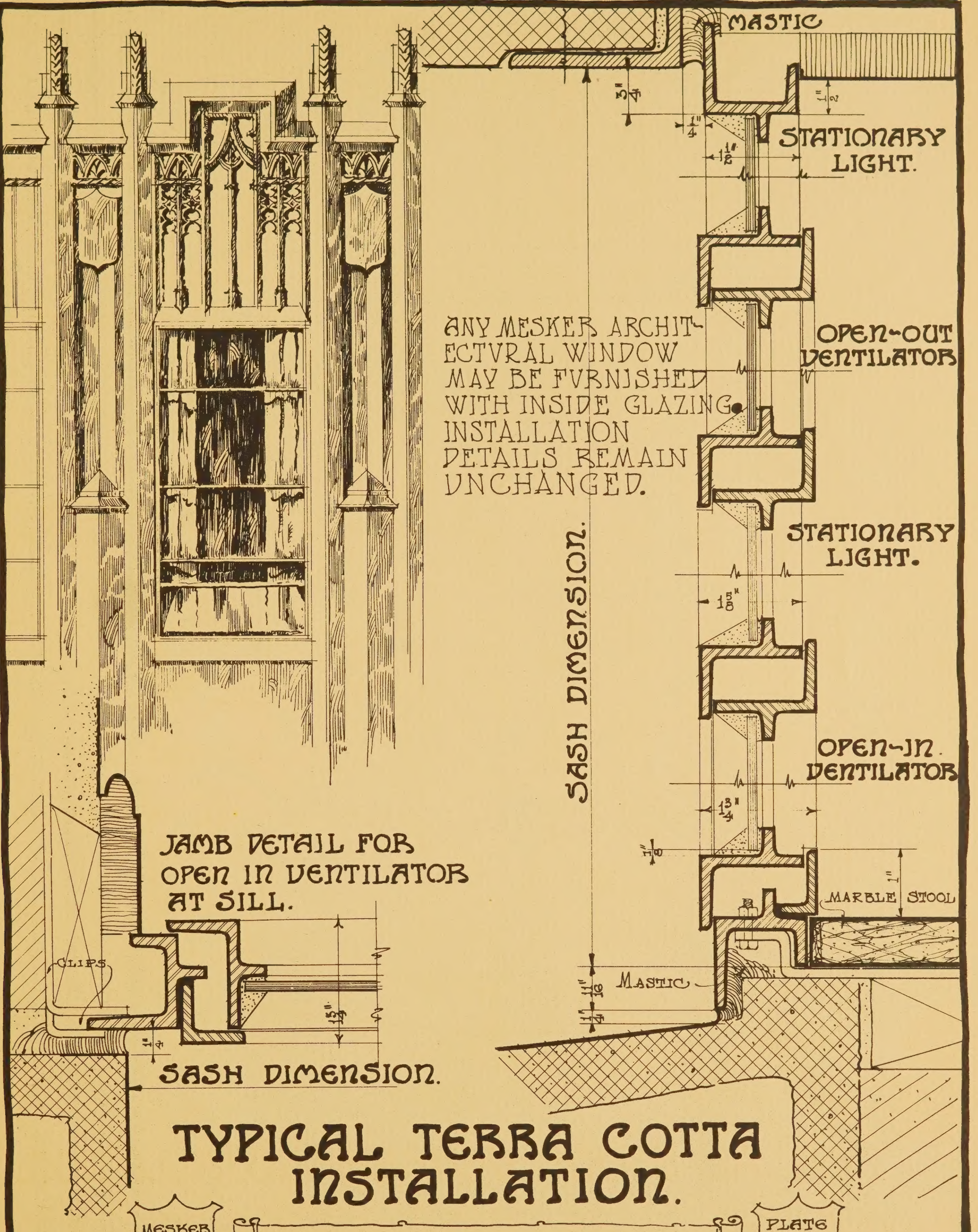


TYPICAL STONE VENEER INSTALLATION.

MESKER BROS. IRON CO.

ORIGINATORS OF WROUGHT IRON SASH

PLATE NO. WA 19-34



ANY MESKER ARCHITECTURAL WINDOW MAY BE FURNISHED WITH INSIDE GLAZING. INSTALLATION DETAILS REMAIN UNCHANGED.

TYPICAL TERRA COTTA INSTALLATION.

MESKER BROS. IRON CO.

ORIGINATORS OF WROUGHT IRON SASH

PLATE NO. WA21-34

FOR your convenience Mesker Catalogues are divided according to the various classifications of metal windows, doors and screens. If you haven't received catalogues on—

MESKER PIVOTED AND PROJECTED WINDOWS
MESKER CONTINUOUS MONITOR WINDOWS
MESKER CASEMENT WINDOWS
MESKER INDUSTRIAL DOORS
MESKER OVERHEAD DOORS
MESKER HANGAR DOORS
MESKER MECHANICAL OPERATORS
MESKER BASEMENT WINDOWS
MESKER DETENTION WINDOWS
MESKER DOUBLE HUNG WINDOWS
MESKER SCREENS
MESKER SUB-FRAMES

—ask your nearest Mesker Sales Office:

Albert Lea, Minn.
Albuquerque, N. Mex.
Atlanta, Ga.
Austin, Tex.
Birmingham, Ala.
Buffalo, N. Y.
Burlington, Iowa
Canton, O.
Charlotte, N. C.
Chattanooga, Tenn.
Chicago, Ill.
Cincinnati, O.
Cleveland, O.
Columbia, S. C.
Columbus, Ind.
Columbus, O.
Dallas, Tex.
Davenport, Iowa
Dayton, O.
Denver, Colo.
Des Moines, Iowa
Detroit, Mich.
Duluth, Minn.
El Paso, Tex.
Flint, Mich.
Ft. Wayne, Ind.
Ft. Worth, Tex.
Grand Rapids, Mich.
Great Falls, Mont.
Harrisburg, Pa.
Honolulu, T. H.
Houston, Tex.
Huntington, W. Va.
Indianapolis, Ind.
Jackson, Miss.
Jacksonville, Fla.
Joplin, Mo.
Kalamazoo, Mich.
Kansas City, Mo.
Knoxville, Tenn.
Lansing, Mich.
Little Rock, Ark.
Los Angeles, Calif.
Louisville, Ky.
Memphis, Tenn.
Miami, Fla.
Milwaukee, Wisc.
Minneapolis, Minn.
Mobile, Ala.
Montgomery, Ala.
Nashville, Tenn.
New Orleans, La.
Newport News, Va.
New York, N. Y.
Ogden, Utah
Oklahoma City, Okla.
Omaha, Neb.
Orange, Tex.
Pensacola, Fla.
Philadelphia, Pa.
Phoenix, Ariz.
Pittsburgh, Pa.
Portland, Ore.
Portsmouth, O.
Richmond, Va.
Roanoke, Va.
St. Joseph, Mo.
San Angelo, Tex.
San Antonio, Tex.
San Francisco, Calif.
Seattle, Wash.
Shreveport, La.
South Bend, Ind.
Springfield, Ill.
Toledo, O.
Tulsa, Okla.
Washington, D. C.
Waterloo, Iowa
Wichita, Kan.
Wichita Falls, Tex.